Special Issue

Digital Control to Power Electronics, 2nd Edition

Message from the Guest Editors

In the past, most power converters have been controlled using analog electronics. However, digital control is present in many power converters nowadays. State-of-the-art fast and powerful digital control systems provide new functionalities and performances for power converters. Moreover, all kinds of communications and artificial intelligence may be included in modern power electronics. Complex control algorithms, identification, and online adaptation may be applied in power converters thanks to modern digital control systems. The main aim of this Special Issue is to seek high-quality submissions that highlight the application of digital control to power electronics, from theory to application. The topics of interest include, but are not limited to, the following:

- Fundamentals of digital control systems in power electronics.
- Microcontrollers, FPGAs, and SoCs applied to power electronics.
- Application of digital control systems to power electronics.
- Implementation of control algorithms in digital systems for power electronics.
- Identification and control of power electronics using digital systems.

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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